

MATERIAL SAFETY DATA SHEET

FIVE STAR PRODUCTS, INC.
750 Commerce Drive
Fairfield, CT 06825
203-336-7900



EMERGENCY TELEPHONE NO. 1-(800) 255-3924

Issue Date: 1/3/12 Supercedes: 10/20/10

**FOR CHEMICAL
EMERGENCY**
Call Chem-Tel
1-800-255-3924
24 hrs./7days per week
Outside US
1-813-248-0585

SECTION I - Product Identification: FIVE STAR® WATERPROOFING, FIVE STAR® WATERPROOFING WHITE

SECTION II - Hazardous Ingredients/Identity Information

<u>Components:</u>	<u>C.A.S. No.:</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>	<u>Other Limits:</u>
Hydraulic Cement	65997-15-1	5 mg/m ^{3*} 15 mg/m ^{3**}	10 mg/m ^{3**}	50 MPPCF

Silicon Dioxide, Crystalline Silica, Silica Sand SiO₂, C.A.S. No. 14808-60-7

OSHA PEL (Permissible Exposure Limit): Exposure to airborne crystalline silica shall not exceed an 8-hour time-weighted limit as stated in MSHA Standards, Subpart D, Section 56.5001 on air quality specifically "Silica: Crystalline: Quartz (respirable) PEL - TWA = 0.1 mg/m³ and 29 CFR 1910.1000 Table Z-1-A, Air Contaminants, specifically: Crystalline Quartz (Respirable) 10 mg/m³ / %SiO₂+2

ACGIH TLV (Threshold Limit Value): Crystalline Quartz TLV-TWA = 0.05 mg/m³ (Respirable Dust). See Threshold Limit Value and Biological Exposure Indices for 1991-1992. American Conference of Governmental Industrial Hygienists.

Other Limits Recommended: National Institute for Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration = 0.05 mg/m³ (respirable free silica) as determined by a full-shift sample up to 10-hour working day, 40-hour week.

*Respirable Dust **Total Dust

HMIS: Health = 1 Fire = 0 Reactivity = 1 Personal Protection = E

SECTION III: - Physical/Chemical Characteristics

<u>Boiling Point (°F):</u>	N/A	<u>Specific Gravity (H₂O = 1):</u>	2.7
<u>Vapor Pressure (mm Hg.):</u>	N/A	<u>Melting Point (°F):</u>	N/A
<u>Vapor Density: (AIR = 1):</u>	N/A	<u>Evaporation Rate:</u>	None (Butyl Acetate = 1)
<u>Solubility in Water:</u>	Negligible.	<u>Appearance and Odor:</u>	Brown, finely ground solid--no odor.

SECTION IV - Fire and Explosion Hazard Data

Flash Point: Noncombustible. Flammable Limits: LEL: N/A, UEL: N/A.

Extinguishing Media: N/A. Special Fire-Fighting Procedures: Not applicable. Unusual Fire and Explosion Hazards: None.

SECTION V - Reactivity Data

Stability: Unstable: () Stable: (X)

Conditions to Avoid: N/A. Incompatibility (Materials to Avoid): Strong acids. Hazardous Decomposition or Byproducts: None known. Hazardous

Polymerization: May occur: () Will not occur: (X)

SECTION VI - Health Hazard Data

Routes of Entry: Inhalation: Yes Skin: Yes Ingestion: Yes

Health Hazards (Acute and Chronic): Prolonged overexposure to Crystalline Free Silica Dust above the threshold limit may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury silicosis may result from breathing free silica. **Acute:** Wet cement, especially as an ingredient in plastic (unhardened) concrete, mortar or slurries, can dry the skin and cause alkali burns. Cement dust can irritate the eyes and upper respiratory system. **Chronic:** Cement dust can cause inflammation of the lining tissue in the interior of the nose and inflammation of the cornea. Carcinogenicity: NTP? Yes. "Known to be a human carcinogen." IARC Monographs? Yes. OSHA Regulated? No. IARC Group 1. "IARC states there is 'sufficient evidence' for the carcinogenicity of inhaled crystalline silica to humans." Signs and Symptoms of Exposure: May cause coughing, sneezing and nasal irritation. May cause skin irritation, dryness, burns. Medical Conditions Aggravated by Exposure: Respiratory ailments. Emergency and First Aid Procedures: Remove to fresh air. Immediately flush eyes with plenty of water for at least 15 minutes. Wash exposed areas with water thoroughly after handling. Product may harden on contact with water. **See physician.**

SECTION VII - Precautions for Safe Handling and Use

Steps To Be Taken in Case Material is Released or Spilled: Avoid breathing dust. Avoid creating additional dust. Vacuum or sweep, using methods that do not disperse dust. Emergency procedures are not required. Waste Disposal Method: May be disposed of in an unrestricted sanitary landfill. Precautions To Be Taken in Handling and Storing: Keep dry until used to preserve product utility. Avoid contact with eyes and skin. Wash thoroughly after handling. Other Precautions: None.

SECTION VIII - Control Measures

Respiratory Protection: Dust mask. OSHA, MSHA or NIOSH-approved respirator. Ventilation: Local Exhaust: May be used if necessary. Mechanical (General): May be used if necessary. Special: None. Other: None. Protective Gloves: Barrier creams or impervious gloves to protect skin. Eye Protection: OSHA, MSHA or NIOSH-approved tight-fitting goggles or masks. Other Protective Clothing or Equipment: Impervious clothing to protect skin from burns. Work/Hygienic Practices: Wash exposed skin thoroughly.

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SECTION I - Product Identification: FIVE STAR® WATERPROOFING LIQUID

SECTION II - Hazardous Ingredients/Identify Information

Components:	C.A.S. No.:	OSHA PEL:	ACGIH TLV:	Other Limits:
Styrene/butadiene Co-polymer	009003-55-8	N/A	N/A	N/A
Proprietary stabilizers	N/A	N/A	N/A	N/A

HMIS: Health = 1 Fire = 0 Reactivity = 0 Personal Protection = B

SECTION III: - Physical/Chemical Characteristics

Boiling Point (°F):	212	Specific Gravity (H ₂ O = 1):	0.980 - 1.040
Vapor Pressure (mm Hg.):	17.5 @ 20°C	Melting Point (°F):	N/A
Vapor Density: (AIR = 1):	0.624 @ 80°F	Evaporation Rate: (Butyl Acetate = 1)	None
Solubility in Water:	Emulsion	Appearance and Odor:	Milky white liquid emulsion - slight odor.

SECTION IV - Fire and Explosion Hazard Data

Flash Point: Not applicable. Method Used: Not applicable. Flammable Limits: LEL: Not determined. UEL: Not determined. Extinguishing Media: Water fog - dried resin only. Special Fire-Fighting Procedures: Not applicable. Fire-Fighting Equipment: Wear positive-pressure, self-contained breathing apparatus. Unusual Fire and Explosion Hazards: As latex, material is not combustible; however, the dried resin is combustible similar to wood. Burning dry resin emits dense, black smoke.

SECTION V - Reactivity Data

Stability: Unstable: () Stable: (X)

Conditions to Avoid: May coagulate if frozen at 32°F. Dried resin is combustible. Incompatibility (Materials to Avoid): Addition of chemicals may cause coagulation. Hazardous Decomposition or Byproducts: If burned, produces a dense, black smoke and noxious gases (carbon monoxide and hydrocarbons). Hazardous Polymerization: May occur: () Will not occur: (X)

SECTION VI - Health Hazard Data

Routes of Entry: Inhalation: Yes. Skin: Yes. Ingestion: Yes.

Health Hazards (Acute and Chronic): Eyes: May cause slight transient (temporary) eye irritation. Skin contact: Short, single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation. Skin Absorption: Skin absorption is unlikely due to physical properties. Ingestion: Single dose oral toxicity is believed to be low. No hazards anticipated from ingestion incidental to industrial exposure. Inhalation: No adverse effects are anticipated from inhalation. Systemic and Other Effects: No specific data available; however, repeated exposures are not anticipated to cause any significant adverse effects. Carcinogenicity: NTP? No. IARC Monographs? No. OSHA Regulated? No. Emergency and First Aid Procedures: Eyes: Irrigate immediately with water for at least 15 minutes. Skin: Wash off in flowing water or shower. Ingestion: No adverse effects anticipated by this route of exposure incidental to proper industrial handling. Inhalation: No adverse effects anticipated by this route of exposure (non-volatile). See physician.

SECTION VII - Precautions for Safe Handling and Use

Steps To Be Taken in Case Material is Released or Spilled: Avoid contact with eyes and skin. Contain material to prevent contamination of soil, surface water or ground water. Recover and recycle spilled latex if possible, otherwise collect with absorbent material and transfer to appropriate containers for disposal. Water may be used for final cleaning of affected area. Waste Disposal Method: Do not dump into any sewers, on the ground or into any body of water. For unused and uncontaminated product, preferred options include sending to a licensed recycler, reclaimer, incinerator or other thermal destruction device. Dispose of in accordance with all federal, state/provincial and local laws and regulations. Precautions To Be Taken in Handling and Storing: Avoid contact with eyes and skin. Wash thoroughly after handling. SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store at temperatures between 40°F and 110°F. Material may develop bacteria odor on long-term storage. No safety problems known. Practice reasonable care to avoid repeated, prolonged skin contact.

SECTION VIII - Control Measures

Respiratory Protection: For most conditions, no respiratory protection should be needed; however, in misty atmospheres, use an approved mist respirator. Ventilation: Good general ventilation should be sufficient for most conditions. Local Exhaust: Recommended. Mechanical (General): Recommended. Special: None. Other: None. Protective Gloves: Use impervious gloves when prolonged or frequently repeated contact could occur. Eye Protection: Use OSHA, MSHA or NIOSH approved tight fitting goggles. Other Protective Clothing or Equipment: Wear long-sleeved, body-covering clothing. Work/Hygienic Practices: Wash exposed skin thoroughly.

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